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JAPAN'S EXPANDING U.S. MANUFACTURING PRESENCE: 1984 UPDATE

Summary

Japanese businesses looking for ways to tap the enormous growth opportunities of the U.S. economy without triggering a protectionist backlash that might jeopardize existing market shares are increasingly opting for a common strategy: investing in domestic production facilities. In 1984 alone, 47 names were added to the roster of U.S. manufacturing companies owned wholly or in part by Japanese corporate investors. This expansion, the biggest single-year increase yet, boosted the year-end total of Japanese-affiliated manufacturers in the United States to 370, including 28 companies in which Japanese corporations have minority interests. More importantly, for workers in industries running the gamut from steel and motor vehicles to communications equipment and integrated circuits, it meant jobs -- at least 90,000 jobs.

Japan's 1984 Investments in U.S. Production Facilities

The Japanese corporate stake in the U.S. manufacturing sector, pegged by the Department of Commerce at $1.7 billion in 1983, expanded significantly last year as all the factors executives weigh in considering production here signaled invest. The strength and durability of the U.S. economic recovery exerted an enormous pull on Japanese manufacturers, whether first-time investors or established producers in this country. The continued appreciation of the yen through 1984's first half also gave Japanese corporations a greater incentive to invest since it both lowered the yen cost of building new plants

or acquiring existing ones and improved the relative cost competitiveness of supplying the American market from onshore. At the same time, strong corporate earnings expanded the funds available for investment. Finally, the rising protectionist noise level in Washington convinced wavering Japanese companies to invest in U.S. production facilities to safeguard their market access.

The push and pull of these factors are evident in the results of the Japan Economic Institute's fifth annual survey of Japanese investment activity in the U.S. manufacturing sector. A record 39 majority-owned companies joined the ranks of domestic manufacturing concerns during 1984, eight more than the year before and well above 1982's recession-curtailed total of 21 such investments. Equally important, eight firms already turning out products in the United States started work on new plants or acquired additional factories, while a long list of other majority-owned manufacturers invested in capacity expansion at their existing facilities. Moreover, Japanese corporations, which had shied away from minority investments in American production firms in both 1982 and 1983, obtained shares of at least 10 percent but less than 50 percent in eight businesses last year.

New plant construction remained the preferred investment route for 1984's 39 majority-owned manufacturing companies, outnumbering acquisitions by a wide four-to-one margin. Newcomers, especially small and medium Japanese producers, almost uniformly decided to start from the ground up, in large part because their initial U.S. operations are limited to final assembly work. But even big Japanese corporations with manufacturing track records here -- companies like NEC Corp., Mitsubishi Electric Corp., Oki Electric Industry Co., Ltd., Kyocera Corp., Sumitomo Metal Industries, Ltd., Mitsubishi Corp. and Nissho Iwai Corp. -- took the "greenfield" approach.

The exceptions, while few in number, were notable. They included Minebea Co., Ltd. and Hitachi Metals, Ltd., two companies that have repeatedly used acquisitions to expand and diversify their U.S. manufacturing operations. More significantly, Nippon Kokan K.K., Japan's number-two steel maker, went the acquisition route to gain a U.S. production base, paying National Intergroup Inc. $292 million for a 50 percent interest in National Steel Corp. (see JEI Report No. 34B, August 31, 1984).

Newcomers and repeat investors alike also continued to opt in most cases for wholly owned U.S. production units rather than joint manufacturing ventures with American companies. Last year's two big breaks with this pattern -- NKK's investment in National Steel as well as Toyota Motor Corp.'s decision to assemble subcompact cars in partnership with General Motors Corp. (see JEI Report No. 1B, January 6, 1984) -- were unusual because they involved tie-ups between major competitors in international markets. Joint production ventures between leading American and Japanese corporations are not without precedent. At the same time, they do not represent the wave of the future, although there will undoubtedly be an increase in production tie-ups as the interests of American and Japanese manufacturers converge in more and more industries.

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Japan's Manufacturing Holdings in the United States: The New Count

At the end of 1984, Japanese corporate investors had a stake of 50 percent or more in 342 U.S. manufacturing companies, including 17 firms scheduled to go onstream later this year or in 1986. While small and medium-scale operations dot the list, an increasing number of companies qualify as big businesses, whether measured by sales, investment, employment or all three indicators. The biggest is also the newest: National Steel. This country's sixth-largest integrated producer with 1984 sales of $2.3 billion, National Steel employs 12,000 people at its three Midwestern mills. Running a close second is integrated aluminum manufacturer Alumax Inc., which reported sales of $1.5 billion two years ago. The company, in operation since 1974, is jointly owned by Mitsui & Co., Ltd., Nippon Steel Corp. and AMAX Inc. It has 94 plants and fabricating warehouses in 29 states and over 13,000 people on its payroll.

Other big ventures include the three Japanese automotive assembly plants in the United States. Honda of America Manufacturing, Inc. hit full production at its Ohio car plant in May 1984 and is now in the process of doubling capacity to 300,000 units a year. The new line, targeted for operation in 1986's second half, will add 500 workers to the company's 2,000 person work force. For its part, Nissan Motor Manufacturing Corp. U.S.A. is gearing up for late March 1985 car production at its Tennessee factory, where 2,100 workers are now turning out pickup trucks at an annual rate of 120,000 units. Employment is projected to increase to 3,000 people in 1986 as car output is raised to 100,000 units a year. New United Motor Manufacturing Inc., the Fremont, California-based joint venture between Toyota and GM, also expects to be in full operation next year, assembling approximately 200,000 cars annually with a work force of 2,500 people.

Some of the consumer electronics companies also number among the largest Japanese manufacturing operations in this country. Sony Corp. of America employs 1,600 at its San Diego, California color television plant, while the Alabama cassette tape factory operated by Sony Magnetic Products Inc. has 1,300 workers. Two manufacturers of color televisions and microwave ovens -- Sanyo Manufacturing Corp. and Matsushita Industrial Co. -- are big concerns as well, with Arkansas-based Sanyo employing 2,200 and Matsushita 1,350 at its facility in the Chicago, Illinois suburbs. Rounding out the list of major investments is Kyocera International, Inc., which has 2,000 employees at three plants in San Diego, California that make ceramic packages for integrated circuits and electronic components.

The 342 U.S. manufacturing companies in which Japanese investors owned a majority stake at year-end 1984 had 522 plants in operation or under construction at that time. California, home to 140 plants, including 17 built or acquired last year, remained the clear winner in the stiff state competition for Japanese investment. Texas continued to be the runner-up with 38 facilities. Six additional plants that boosted its total to 31 helped Georgia move into the number-three slot, bumping New Jersey, the location of 29 plants, into fourth place. Next on the list were Illinois and Washington, both of which had attracted 22 factories, followed by North Carolina, the site of 21 Japanese manufacturing operations, and Pennsylvania with 20 plants. Ohio moved into a tie for eighth place with Michigan as five new plants raised its total

to 16. Other states that had attracted relatively large numbers of Japanese investors included Alaska (15), New York (15), Tennessee (14) and Indiana (12).

While company and plant data give some feel for the magnitude of Japan's corporate stake in the U.S. manufacturing sector, employment numbers are a much more illuminating indicator. The 325 majority-owned manufacturing concerns already in operation have approximately 89,000 people on their payrolls. Another 2,000 or so jobs will be generated when plants now under construction go onstream later this year or next, and several thousand others will open as established manufacturers complete their current expansion programs. With Japanese investors also creating or maintaining jobs by taking minority positions in 28 U.S. manufacturing companies, it is safe to say that at least 100,000 Americans will owe their jobs this year to Japanese-affiliated manufacturers in this country.

For further information, contact Susan MacKnight.

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The views expressed in this report are those of the author and do not necessarily represent those of the Japan Economic Institute.

JEI's Investment Survey

The Japan Economic Institute's study of U.S. manufacturing companies owned by or affiliated with Japanese investors was limited to firms that had plants in operation or under construction on December 31, 1984. This cut-off date eliminated a number of companies that had definite plans to build production facilities in the United States but had not broken ground by year end, as well as several acquisitions that had not been finalized.

The results of the 1984 update survey are contained in three appendices, which also include the information from the three previous updates. The main appendix gives, in alphabetical order, the full name of each U.S. manufacturing company owned wholly or in part by Japanese investors; the location of its plant or plants; the full name of what is known as the company's ultimate beneficial owner(s); the share of stock held by the owner(s); whether the company was a new investment or an acquisition; the company's major product line(s); the approximate or actual number of people employed by the company, if available; and when the company began production or, in the case of acquisitions, when the company was bought by Japanese investors. The second appendix presents a state-by-state listing of plant locations, while the third groups the products made in terms of four-digit Standard Industrial Classification codes.

A fourth appendix lists companies that have gone out of business and plants that have closed since the 1980 benchmark and the 1981-83 updates were published. This information was obtained from publicly available sources. No attempt was made to resurvey all the previously listed companies.

Note

The following appendices only include companies that have been added since the 1980 benchmark study was published. For a complete list of U.S. manufacturing companies owned by or affiliated with Japanese investors, it is necessary to consult the benchmark study as well as the attached appendices.

Appendix 1: Alphabetic Listing of U.S. Manufacturing Affiliates of Japanese Companies

Company	Plant Location	Parent	Share	New or Acquired	Product Line	Employees	Year Plant Opened or Acquired
ALCOA-NEC Communications Corp.	Sidney, OH	NEC Corp.	49%	New	Satellite television receiving systems	15	1982
		Aluminum Co. of America	51				
•ASTRONET Corp.	Lake Mary, FL	Mitsubishi Electric Corp.	49	New	Cellular mobile communications equipment	50	1984
		Plessey Co., Plc.	51				
ATR Wire and Cable Co.	Danville, KY	Tokyo Rope Manufacturing Co., Ltd.	60	Acquired	Steel cord/bead wire for tires	420	1981
		Mitsubishi Corp.	20				
		C. Itoh & Co., Ltd.	20				
Alloy Tool Steel Inc.	Santa Fe Springs, CA	Nissho Iwai Corp.	35	New	Steel processing	30	1974
		Nippon Koshuha Steel Co., Ltd.	35				
Alloy Tool Steel of Texas Inc.	Hutchins, TX	Nissho Iwai Corp.	18	New	Steel processing	5	1981
		Nippon Koshuha Steel Co., Ltd.	18				
Alpha Biochemical Corp.	Richland, WA	Kanegafuchi Chemical Industry Co., Ltd.	100	New	Binder for fish feed	20	1982
Alumax Inc.		Mitsui & Co., Ltd.	45	Acquired			1974
		Nippon Steel Corp.	5				
		AMAX Inc.	50				
Alumax Extrusions, Inc.	Catawaba, NC	Alumax Inc.	100	New	Aluminum extruded shapes	n.a.	1981
Alumax Fabricated Products, Inc.	Tempe, AZ	Alumax Inc.	100	Acquired	Aluminum products for housing aftermarket	n.a.	1981
Alumax Fabricated Products, Inc.	Anaheim, CA	Alumax Inc.	100	Acquired	Aluminum products for housing aftermarket	n.a.	1981
Alumax Fabricated Products, Inc.	Sacramento, CA	Alumax Inc.	100	Acquired	Aluminum products for housing aftermarket	n.a.	1981
•Alumax Fabricated Products, Inc.	Alma, GA	Alumax Inc.	100	Acquired	Aluminum products for housing aftermarket/mobile homes	n.a.	1984
•Alumax Fabricated Products, Inc.	Elkhart, IN	Alumax Inc.	100	Acquired	Aluminum products for housing aftermarket/mobile homes	n.a.	1984
•Alumax Mill Products, Inc.	Texarkana, TX	Alumax Inc.	100	New	Aluminum sheet	n.a.	1986*
Howmet Aluminum**	Rockwall, TX	Alumax Inc.	100	Acquired	Secondary aluminum slab/billet	n.a.	1983
Howmet Aluminum**	Philadelphia, PA	Alumax Inc.	100	Acquired	Recycled aluminum scrap	n.a.	1983
Howmet Aluminum**	Arlington, TX	Alumax Inc.	100	Acquired	Recycled aluminum scrap	n.a.	1983
Howmet Aluminum**	Houston, TX	Alumax Inc.	100	Acquired	Recycled aluminum scrap	n.a.	1983
Howmet Aluminum**	Hawesville, KY	Alumax Inc.	100	Acquired	Aluminum sheet/coil	n.a.	1983
Howmet Aluminum**	Lancaster, PA	Alumax Inc.	100	Acquired	Aluminum sheet/coil	n.a.	1983
Howmet Aluminum**	Atlanta, GA	Alumax Inc.	100	Acquired	Aluminum/copper/steel processing	n.a.	1983
Howmet Aluminum**	Fraser, MI	Alumax Inc.	100	Acquired	Aluminum/copper/steel processing	n.a.	1983
Howmet Aluminum**	Grand Rapids, MI	Alumax Inc.	100	Acquired	Aluminum/copper/steel processing	n.a.	1983
Howmet Aluminum**	Kansas City, MO	Alumax Inc.	100	Acquired	Aluminum/copper/steel processing	n.a.	1983
Howmet Aluminum**	Brecksville, OH	Alumax Inc.	100	Acquired	Aluminum/copper/steel processing	n.a.	1983
Howmet Aluminum**	Mesquite, TX	Alumax Inc.	100	Acquired	Aluminum/copper/steel processing	n.a.	1983
Howmet Aluminum**	Rockwall, TX	Alumax Inc.	100	Acquired	Aluminum extruded shapes	n.a.	1983
Howmet Aluminum**	Lakeland, FL	Alumax Inc.	100	Acquired	Aluminum products for mobile homes/ recreational vehicles	n.a.	1983
Howmet Aluminum**	Tifton, GA	Alumax Inc.	100	Acquired	Aluminum products for mobile homes/ recreational vehicles	n.a.	1983
Howmet Aluminum**	Elkhart, IN	Alumax Inc.	100	Acquired	Aluminum products for mobile homes/ recreational vehicles	n.a.	1983

Company	Plant Location	Parent	Share	New or Acquired	Product Line	Employees	Year Plant Opened or Acquired
Howmet Aluminum**	Hutchinson, KS	Alumax Inc.	100	Acquired	Aluminum products for mobile homes/ recreational vehicles	n.a.	1983
Howmet Aluminum**	Sanford, NC	Alumax Inc.	100	Acquired	Aluminum products for mobile homes/ recreational vehicles	n.a.	1983
Howmet Aluminum**	Leola, PA	Alumax Inc.	100	Acquired	Aluminum products for mobile homes/ recreational vehicles	n.a.	1983
Howmet Aluminum**	Alvarado, TX	Alumax Inc.	100	Acquired	Aluminum products for mobile homes/ recreational vehicles	n.a.	1983
Howmet Aluminum**	Tucker, GA	Alumax Inc.	100	Acquired	Aluminum rain-carrying components/ other building products	n.a.	1983
Howmet Aluminum**	Lancaster, PA	Alumax Inc.	100	Acquired	Aluminum rain-carrying components/ other building products	n.a.	1983
Howmet Aluminum**	Grand Prairie, TX	Alumax Inc.	100	Acquired	Aluminum rain-carrying components/ other building products	n.a.	1983
Howmet Aluminum**	Vancouver, WA	Alumax Inc.	100	Acquired	Aluminum rain-carrying components/ other building products	n.a.	1983
Howmet Aluminum**	Cerritos, CA	Alumax Inc.	100	Acquired	Aluminum products for housing aftermarket	n.a.	1983
Howmet Aluminum**	Fremont, CA	Alumax Inc.	100	Acquired	Aluminum products for housing aftermarket	n.a.	1983
Howmet Aluminum**	Lithonia, GA	Alumax Inc.	100	Acquired	Aluminum products for housing aftermarket	n.a.	1983
Howmet Aluminum**	Bedford Park, IL	Alumax Inc.	100	Acquired	Aluminum products for housing aftermarket, aluminum rain-carrying components/other building products	n.a.	1983
Howmet Aluminum**	Kansas City, MO	Alumax Inc.	100	Acquired	Aluminum products for housing aftermarket	n.a.	1983
Howmet Aluminum**	Harrisburg, PA	Alumax Inc.	100	Acquired	Aluminum products for housing aftermarket	n.a.	1983
Howmet Aluminum**	Mesquite, TX	Alumax Inc.	100	Acquired	Aluminum products for housing aftermarket	n.a.	1983
Howmet Aluminum**	Hayward, CA	Alumax Inc.	100	Acquired	Aluminum bath enclosures	n.a.	1983
Howmet Aluminum**	Tucker, GA	Alumax Inc.	100	Acquired	Aluminum bath enclosures	n.a.	1983
Howmet Aluminum**	Dallas, TX	Alumax Inc.	100	Acquired	Aluminum bath enclosures	n.a.	1983
Howmet Aluminum**	Dallas, TX	Alumax Inc.	100	Acquired	Aluminum products for commercial remodeling	n.a.	1983
Howmet Aluminum**	Leola, PA	Alumax Inc.	100	Acquired	Aluminum garage doors	n.a.	1983
Howmet Aluminum**	Magnolia, AR	Alumax Inc.	100	Acquired	Aluminum spectator seating, scaffolding, ceiling grid systems, custom fabricated work	n.a.	1983
Kawneer Co., Inc.	Springdale, AR	Alumax Inc.	100	New	Architectural aluminum products	n.a.	1981
Kawneer Co., Inc.	Aurora, CO	Alumax Inc.	100	New	Architectural aluminum products	n.a.	1983
Kawneer Co., Inc.	Cleveland, OH	Alumax Inc.	100	Acquired	Architectural aluminum products	n.a.	1974
Kawneer Co., Inc.	Houston, TX	Alumax Inc.	100	New	Architectural aluminum products	n.a.	1982
Amano-International Enzyme Co., Inc.	Troy, VA	Amano Pharmaceutical Co., Ltd.	47.5	New	Enzymes	7	1981
		Boehringer International Enzyme Inc.	47.5				
American Foods Corp.	Gardena, CA	Nakano Vinegar Co., Ltd.	100	Acquired	Vinegar	75	1983
American Foods Corp.	Guasti, CA	Nakano Vinegar Co., Ltd.	100	Acquired	Vinegar, cooking wines		1981
American Foods Corp.	San Francisco, CA	Nakano Vinegar Co., Ltd.	100	Acquired	Vinegar, cooking wines, sauces		1981
American Foods Corp.	Watsonville, CA	Nakano Vinegar Co., Ltd.	100	Acquired	Vinegar		1981

Company	Plant Location	Parent	Share	New or Acquired	Product Line	Employees	Year Plant Opened or Acquired
•Amitech Inc.	Marietta, GA	Mitsui & Co., Ltd. Nypro Inc.	50 50	New	Plastic parts for electronics industry/medical uses	80	1981
Amsnack, Inc.	Stockton, CA	Chuoken Sembei Inc.	100	New	Rice crackers	11	1981
•Ando Screen Inc.	North Canton, OH	Ando Screen Co., Ltd.	100	New	Screening equipment for liquid-solid separation	15	1985
Bellemar Parts Industries Inc.	Marysville, OH	Honda Motor Co., Ltd. Sankei Giken Kogyo Co., Ltd. Tokyo Seat Co., Ltd.	80 10 10	New	Automotive/motorcycle seats, wheels	170	1982
•Bellemar Parts Industries Inc.	Russells Point, OH	Honda Motor Co., Ltd. Sankei Giken Kogyo Co., Ltd. Tokyo Seat Co., Ltd.	80 10 10	New	Automotive exhaust systems, catalytic converters, brake lines, door sashes	140*	1985*
Bering Sea Fisheries, Inc.	Mouth of Yukon, AK	Marubeni Corp.	25	Acquired	Frozen fish	40	1972
Bio Kyowa Inc.	Cape Girardeau, MO	Kyowa Hakko Kogyo Co., Ltd.	100	New	Lysine (feedstuff amino acid additive)	70	1984
Bridgestone Tire Manufacturing (U.S.A.), Inc.	LaVergne, TN	Bridgestone Corp.	100	Acquired	Radial truck/bus tires	900	1982
Bunmeido of Hawaii Ltd.	Honolulu, HI	Bunmeido Confectionery Co., Ltd.	100	New	Bakery products	8	1965
CTY Corp.	San Marcos, CA	Taiyo Yuden Co., Ltd.	100	New	Axial capacitors	40	1981
•California Steel Industries Inc.	Fontana, CA	Kawasaki Steel Corp. Cia Vale do Rio Doce S.A.	25 25	Acquired	Hot-rolled, cold-rolled/galvanized steel sheets/coils, hot-rolled steel plates	525	1984
Calsonic Manufacturing Corp.	Shelbyville, TN	Nihon Radiator Co., Ltd.	100	New	Automotive air conditioners, exhaust assemblies	200	1983
•Cape Cod Potato Chips	Hyannis, MA	Kirin Brewery Co., Ltd.	25	Acquired	Potato chips	10	1984
Caribe Isoprene Corp.	Penuelas, PR	Nippon Zeon Co., Ltd. Mitsubishi Corp.	50 40	New	Isoprene monomer, dicyclopentadiene, piperylene	50	1975
Cast Forge Co.	Howell, MI	Nippon Light Metal Co., Ltd. Kelsey-Hayes Co.	20 80	Acquired	Aluminum wheels/other die-cast automotive parts	100	1982
•Chateau St. Jean	Kenwood, CA	Suntory Ltd.	100	Acquired	Wine	90	1984
Chickasha Cotton Oil Co.	Casa Grande, AZ	Toyo Menka Kaisha, Ltd.	100	Acquired	Cottonseed oil	70	1981
Chickasha Cotton Oil Co.	Clinton, OK	Toyo Menka Kaisha, Ltd.	100	Acquired	Cottonseed oil	70	1981
Chickasha Cotton Oil Co.	Harlingen, TX	Toyo Menka Kaisha, Ltd.	100	Acquired	Cottonseed oil	70	1981
Chickasha Cotton Oil Co.	Lamesa, TX	Toyo Menka Kaisha, Ltd.	100	Acquired	Cottonseed oil	70	1981
Clarion Corp. of America	Nashville, TN	Clarion Co., Ltd.	100	New	Automotive radio combinations	3	1983
Coca-Cola Bottling Co.	Salem, NH	Kirin Brewery Co., Ltd.	100	Acquired	Soft drinks	187	1982
•CoilPlus, Inc.	Athens, AL	Mitsubishi Corp.	100	New	Steel processing	50*	1985*
Concise Casting Corp.	Hayward, CA	Hitachi Metals, Ltd.	100	Acquired	Aluminum castings	95	1981
Cryodynamics Co.-Ebara Group	Sacramento, CA	Ebara Corp.	70	New	Pumps for low-temperature liquids	30	1984
•Curtis-Maruyasu America, Inc.	Tracy, CA	Maruyasu Industries Co., Ltd. Curtis Products, Inc.	50 50	New	Automotive fuel line/hydraulic brake assemblies	25*	1985*
Daiichiya Love's Bakery Inc.	Honolulu, HI	Daiichiya Baking Co., Ltd.	100	Acquired	Bakery products	240	1981
•Dainippon Screen Engineering of America Inc.	Santa Ana, CA	Dainippon Screen Mfg. Co., Ltd.	100	New	Electronic page makeup systems/color scanners for graphic arts industry	20	1984

Company	Plant Location	Parent	Share	New or Acquired	Product Line	Employees	Year Plant Opened or Acquired
Daiwa Golf Co.	Gardena, CA	Daiwa Seiko, Inc.	100	New	Golf clubs	20	1981
Data Ray Corp.	Boulder, CO	Nippon Chemi-Con Corp.	75	Acquired	CRT display modules	50	1983
Diamond Plastics Corp.	Grand Island, NE	Mitsubishi Corp.	100	Acquired	Polyvinyl chloride pipes	]	1982
Diamond Plastics Corp.	Lubbock, TX	Mitsubishi Corp.	100	Acquired	Polyvinyl chloride pipes	115	1982
Digital Audio Disc Corp.	Terre Haute, IN	Sony Corp. CBS Inc.	50 50	New	Digital audio discs	200	1984
Dutch Harbor Seafoods Co., Inc.	Dutch Harbor, AK	Nippon Suisan Kaisha Ltd.	25	New	Frozen fish	100	1976
•Eaton Auto Products Manufacturing Inc.	Eaton, OH	Nihon Plast Co., Ltd.	100	New	Automotive steering wheels	40*	1985*
Economic Salon, Ltd.	New York, NY	Keizai Salon Co., Ltd.	100	New	Periodicals publishing	10	1971
Enway Inc.	Clackamas, OR	Restaurant Skylark Co., Ltd.	51	New	Frozen potato products	10	1982
FEC Inc.	Madison Heights, MI	Dai-Ichi Dentsu Co., Ltd.	100	New	Electronic fastening systems	25	1983
First Metals, Inc.	Houston, TX	Toyo Menka Kaisha, Ltd.	100	New	Steel processing	22	1978
Forman Industries Inc.	Hayward, CA	Kawasho Corp.	100	Acquired	Sheet-metal ducts	35	1979
Fotomat Corp.	St. Louis, MO	Konishiroku Photo Industry Co., Ltd.	20	Acquired	Photographic chemicals	30	1982
Fotomat Corp.	Springdale, OH	Konishiroku Photo Industry Co., Ltd.	20	Acquired	Kiosks	10	1982
Fuji Cone Inc.	Clinton, NC	Fuji Cone Works Ltd. International Jensen Inc.	50 50	New	Paper cones for stereo speakers	85	1981
Fuji Foods Inc.	Browns Summit, NC	Fuji Foods Corp.	100	New	Beef/chicken extracts for soup stocks	16	1983
Fuki Koki America Inc.	Dallas, TX	Fuji Koki Mfg. Co., Ltd.	100	New	Expansion valves for automotive air conditioning systems	32	1982
Fujitec Industries, Inc.	Lebanon, OH	Fujitec Co., Ltd.	100	New	Elevators, escalators	100	1983
Fujitsu America, Inc.	Palm Bay, FL	Fujitsu, Ltd.	100	New	Cable assemblies, power supply units/related components for computers/peripheral equipment	50	1983
Fujitsu America, Inc.	Richardson, TX	Fujitsu, Ltd.	100	New	Cellular mobile/fiber-optic communications equipment, multiplexers, microwave radios	150	1984
Halco Fence & Wire Co.	Dallas, TX	C. Itoh & Co., Ltd.	100	Acquired	Chain link	200	1980
•Heartland Lysine, Inc.	Eddyville, IA	Ajinomoto Co., Inc. Orsan S.A.	50 50	New	Lysine (feedstuff amino acid additive)	50*	1986*
•Hemlock Semiconductor Corp.	Hemlock, MI	Shin-Etsu Handotai Co., Ltd. Mitsubishi Metal Corp. Dow Corning Corp.	24.5 12.25 63.25	Acquired	Polycrystalline silicon	225	1984
High Voltage Breakers, Inc.	Norcross, GA	Hitachi, Ltd. General Electric Co.	67 33	New	Circuit breakers for power plants/ transmission lines	15	198_
•Hirose Electric (U.S.A.), Inc.	Chatsworth, CA	Hirose Electric Co., Ltd.	100	New	Connectors	2*	1985*
•Hitachi Chemical Co. America, Inc.	De Kalb, GA	Hitachi Chemical Co., Ltd.	100	New	Multiwire boards	60*	1985*
Hitachi Consumer Products of America Inc.	Anaheim, CA	Hitachi, Ltd.	100	New	Color television sets	400	1982
Hi-Tek Corp.	Garden Grove, CA	Minebea Co., Ltd.	100	Acquired	Computer keyboards	130	1983
•Honda of America Mfg., Inc.	Anna, OH	Honda Motor Co., Ltd.	100	New	Motorcycle engines	150*	1985*

Company	Plant Location	Parent	Share	New or Acquired	Product Line	Employees	Year Plant Opened or Acquired
Honda Power Equipment Manufacturing Inc.	Swepsonville, NC	Honda Motor Co., Ltd.	100	New	Lawnmowers	80	1984
Honma Golf, Inc.	Honolulu, HI	Honma Corp.	100	New	Golf clubs	36	1978
House Foods and Yamauchi Inc.	Los Angeles, CA	House Food Industrial Co., Ltd.	50	Acquired	Tofu/related soybean products	40	1983
IDEC Systems & Controls Corp.	Santa Clara, CA	Izumi Denki Corp.	100	New	Relays, sockets, switches/other electrical industrial components	70	1975
IKS American Corp.	Gardena, CA	Izumoto Seiko Co., Ltd.	100	New	Ball bearings	18	1974
IMC Magnetics Corp.	Westbury, NY	Minebea Co., Ltd.	100	Acquired	Fans/blowers for communications/ computer equipment	n.a.	1974
International Leadframe Corp.	Sunnyvale, CA	Mitsui Mfg. Co., Ltd.	100	New	Lead frames for integrated circuits	21	1980
•International Light Metals Corp.	Torrance, CA	Nippon Kokan K.K.	40	Acquired	Aluminum/titanium bars, extrusions/ forgings	1,750	1985
		Martin Marietta Corp.	60				
International Titanium Inc.	Moses Lake, WA	Ishizuka Research Institute	50	New	Titanium sponge	120	1982
		Mitsui & Co., Ltd.	30				
•Iwatsu America Inc.	Carlstadt, NJ	Iwatsu Electric Co., Ltd.	100	New	Key telephone systems	n.a.	1984
Japan Aircraft Maintenance (America), Inc.	Mukilteo, WA	New Japan Aircraft Maintenance Co., Ltd.	100	New	Aircraft interior equipment	5	1982
•KTH Parts Industries Inc.	St. Paris, OH	Kikuchi Press Kogyo Co., Ltd. Takao Kinzoku Kogyo Co., Ltd. Hirata Press Kogyo Co., Ltd. Hongo Seisakusho Co., Ltd.	100	New	Automotive stamped/welded internal structural components	150*	1985*
Kage USA Inc.	Fountain Valley, CA	Kage Tsushin Kogyo Co., Ltd.	100	New	Lead frames/other metal parts for integrated circuits	10	1982
•Kameyama U.S.A. Inc.	Fall River, MA	MAS Co., Ltd.	Majority share	New	Candles	15	1985
Kaneka Texas Corp.	Bayport, TX	Kanegafuchi Chemical Industry Co., Ltd.	100	New	Methyl methacrylate-butadiene-styrene resins	80	1984
•Kantus Corp.	Lewisburg, TN	Kanto Seiki Co., Ltd.	100	New	Automotive plastic instrument panels, radiator grilles, console boxes/bumpers	100*	1985*
Kato Spring Inc.	Huntington Beach, CA	Kato Spring Works Co., Ltd.	100	New	Precision springs	10	1983
Kato Spring of Georgia Inc.	Norcross, GA	Kato Spring Works Co., Ltd.	100	New	Precision springs	8	1982
Kel Am, Inc.	Elkton, MD	Kel Corp.	100	New	Connectors	85	1978
Kibun Corp. of North Carolina	Raleigh, NC	Kibun Co., Ltd.	100	New	Frozen seafood	16	1984
Kibun Corp. of Washington	Redmond, WA	Kibun Co., Ltd.	100	New	Frozen seafood	44	1983
Kikusui International Corp.	Gardena, CA	Kikusui Electronics Corp.	100	New	Oscilloscopes	20	1983
•Kubota Tractor Corp.	Norcross, GA	Kubota, Ltd.	100	New	Farm tractors	6	1984
•Kyocera Northwest Inc.	Vancouver, WA	Kyocera Corp.	100	New	Ceramic capacitors	250*	1985*
Lafayette Metal Service Corp.	Long Beach, CA	C. Itoh & Co., Ltd.	81	Acquired	Steel processing	60	1982
		Nuova Italsider S.p.A.	19				
LeBlond Makino Machine Tool Co.	Cincinnati, OH	Makino Milling Machine Co., Ltd.	51	Acquired	Numerically controlled lathes, machining centers, numerical controls	950	1981
		LeBlond Inc.	49				

Company	Plant Location	Parent	Share	New or Acquired	Product Line	Employees	Year Plant Opened or Acquired
•LyphoMed Inc.	Melrose Park, IL	Fujisawa Pharmaceutical Co., Ltd.	22.5	Acquired	Injectable drugs	425	1985
MCI Inc.	Fort Lauderdale, FL	Sony Corp.	100	Acquired	Recording studio equipment	384	1982
MCI Optinix Inc.	Morristown, NJ	Mitsubishi Chemical Industries, Ltd.	100	Acquired	X-ray intensifying screens for medical use	15	1981
Machine Specialties Co.	Lincoln, RI	Bando Chemical Industries, Ltd.	100	Acquired	Pulleys	30	1979
•Maruhachi Ceramics of America	Corona, CA	Maruhachi Ceramics Co., Ltd.	100	New	Roofing tiles	30*	1985*
Master Fence Fittings Inc.	La Habra, CA	C. Itoh & Co., Ltd.	100	Acquired	Fittings for metal fencing	300	1977
Matheson Gas Products Inc.	Cucamonga, CA	Nippon Sanso K.K. UGI Corp.	50 50	Acquired	Specialty gases, specialty gas handling equipment		1983
Matheson Gas Products Inc.	Newark, CA	Nippon Sanso K.K. UGI Corp.	50 50	Acquired	Specialty gases, specialty gas handling equipment		1983
Matheson Gas Products Inc.	Morrow, GA	Nippon Sanso K.K. UGI Corp.	50 50	Acquired	Specialty gases, specialty gas handling equipment		1983
Matheson Gas Products Inc.	Joliet, IL	Nippon Sanso K.K. UGI Corp.	50 50	Acquired	Specialty gases, specialty gas handling equipment		1983
Matheson Gas Products Inc.	Gonzales, LA	Nippon Sanso K.K. UGI Corp.	50 50	Acquired	Specialty gases, specialty gas handling equipment	400	1983
Matheson Gas Products Inc.	Gloucester, MA	Nippon Sanso K.K. UGI Corp.	50 50	Acquired	Specialty gases, specialty gas handling equipment		1983
Matheson Gas Products Inc.	E. Rutherford, NJ	Nippon Sanso K.K. UGI Corp.	50 50	Acquired	Specialty gases, specialty gas handling equipment		1983
Matheson Gas Products Inc.	Twinsburg, OH	Nippon Sanso K.K. UGI Corp.	50 50	Acquired	Specialty gases, specialty gas handling equipment		1983
Matheson Gas Products Inc.	La Porte, TX	Nippon Sanso K.K. UGI Corp.	50 50	Acquired	Specialty gases, specialty gas handling equipment		1983
•Matsushita Communication Co.	Franklin Park, IL	Matsushita Communication Industrial Co., Ltd.	100	New	Cellular mobile communications equipment	24	1984
Matsushita Electric Components Co.	Palo Alto, CA	Matsushita Electric Industrial Co., Ltd.	100	New	Integrated circuits	35	1983
Matsushita Electric of Puerto Rico, Inc.	Caguas, PR	Matsushita Electric Industrial Co., Ltd.	100	New	Stereo speakers, record changers, speaker boxes, motors for phonographs/audio equipment	720	1965
Megatool Inc.	Buena Park, CA	Union Tool Co., Ltd.	51	New	Carbide drills	17	1982
Memorex DIC Corp.	Santa Clara, CA	Dainippon Ink & Chemicals Inc. Burroughs Corp.	43 57	Acquired	Toner/developer for copiers, duplicators/printers	35	1981
•Metco America Inc.	Mobile, AL	Mitsubishi Rayon Co., Ltd. M&T Chemicals Inc.	Minority share Majority share	New	Impact modifiers for plastics industry	60*	1985*
Mitsubishi Foods Inc.	Ponce, PR	Mitsubishi Corp.	100	Acquired	Canned fish	500	1981
•Mitsubishi Semiconductor America Inc.	Durham, NC	Mitsubishi Electric Corp.	100	New	Integrated circuits	250	1985
Mitutoyo Corp.	City of Industry, CA	Mitutoyo Mfg. Co., Ltd.	100	New	Calipers, micrometers	30	1979
•Musashi USA Inc.	Battle Creek, MI	Musashi Precision Industry Co., Ltd.	100	New	Automotive arm bushing/joint assemblies	3*	1985*

Company	Plant Location	Parent	Share	New or Acquired	Product Line	Employees	Year Plant Opened or Acquired
NEC America, Inc.	Hawthorne, CA	NEC Corp.	100	New	Cellular mobile communications equipment, mobile paging devices	120	1975
•NEC America, Inc.	Hillsboro, OR	NEC Corp.	100	New	Fiber-optic communications equipment	300*	1985*
NEC Electronics U.S.A. Inc.	Roseville, CA	NEC Corp.	100	New	Integrated circuits	200	1984
•NEC Home Electronics (U.S.A.) Inc.	McDonough, GA	NEC Corp.	100	New	Color television sets	100*	1985*
NEC Information Systems Inc.	Boxborough, MA	NEC Corp.	100	New	Computers/peripheral equipment	500	1983
NKK Switches of America, Inc.	Scottsdale, AZ	Nihon Kaiheiki Industries Co., Ltd.	Majority share	New	Electric/electronic switches	10	1983
•NSG America Inc.	Somerset, NJ	Nippon Sheet Glass Co., Ltd.	100	New	Fiber-optic lens	15*	1985*
•National Steel Corp.	Granite City, IL	Nippon Kokan K.K. National Intergroup Inc.	50 50	Acquired	Steel slabs/hot-rolled, cold-rolled/coated steel sheets		1984
•National Steel Corp.	Portage, IN	Nippon Kokan K.K. National Intergroup Inc.	50 50	Acquired	Cold-rolled, coated/tin-plate steel sheets	12,000	1984
•National Steel Corp.	Ecorse, MI	Nippon Kokan K.K. National Intergroup Inc.	50 50	Acquired	Steel slabs/hot-rolled/cold-rolled steel sheets		1984
Neptune Packing Corp.	Mayaquez, PR	Mitsui & Co., Ltd.	100	Acquired	Canned fish	500	1973
•New United Motor Manufacturing Inc.	Fremont, CA	Toyota Motor Corp. General Motors Corp.	50 50	New	Cars, automotive body stampings	800	1984
Nichimo Northwest, Inc.	Everson, WA	Nichimo Co., Ltd. Northwest Net & Twine, Inc.	70 30	New	Gill nets	20	1982
•Nidec Torin Corp.	Torrington, CT	Nippon Densan Corp.	100	Acquired	Small horsepower fans for computer motors	200	1984
Nidek Inc.	Palo Alto, CA	Nidek Co., Ltd.	100	New	Auto-refractometers, photocoagulators/other ophthalmologic instruments	4	1983
Niitakaya USA Inc.	Los Angeles, CA	Niitakaya Co., Ltd.	100	Acquired	Pickles	10	1983
Nikko Wolverine Inc.	Dearborn Heights, MI	Nippon Mining Co., Ltd. C. Itoh & Co., Ltd. UOP Inc.	51 29 20	Acquired	Titanium/zirconium tubes/pipe	60	1981
Nintendo of America, Inc.	Seattle, WA	Nintendo Co., Ltd.	100	New	Video game machines	50	1982
Nippondenso Sales, Inc.	Battle Creek, MI	Nippondenso Co., Ltd.	100	New	Automotive windshield washers/heaters	40	1983
•Nisco Steel Services Inc.	Memphis, TN	Nissho Iwai Corp.	100	New	Steel processing	30	1984
•Nisshin Gulf Coast Inc.	Houston, TX	Nisshin Chemical Industry Co., Ltd. EGC Corp.	50 50	New	Custom fluoropolymer linings for corrosion resistance	n.a.	1984
•Nitto Denko America, Inc.	Santa Clara, CA	Nitto Electric Industrial Co., Ltd.	100	New	Membrane modules for recovery of electrodeposited paint	1	1984
North American Brine Resources	Kingfisher County, OK (three sites)	United Resources Industry Co., Ltd. Mitsui & Co., Ltd. Beard Oil Co.	50 10 40	New	Iodine	5	1982
North American Lighting, Inc.	Flora, Il	Koito Manufacturing Co., Ltd. Ichikoh Industries Ltd. Westfalische Metal Industrie AG	39 10 51	New	Automotive lighting equipment	33	1983

Company	Plant Location	Parent	Share	New or Acquired	Product Line	Employees	Year Plant Opened or Acquired
North Pacific Processors Inc.	Cordova, AK	Marubeni Corp.	100	New	Canned/frozen fish	450	1972
North Pacific Processors Inc.	Kenai, AK	Marubeni Corp.	100	New	Canned/frozen fish		1972
North Pacific Processors Inc.	Kodiak, AK	Marubeni Corp.	100	New	Canned/frozen fish		1972
Nutrius Inc.	Van Buren, AR	Mitsui & Co., Ltd.	100	Acquired	Feed additives	200	1981
•Nutrius Inc.	Cypress, CA	Mitsui & Co., Ltd.	100	Acquired	Feed additives		1984
Nutrius Inc.	Fresno, CA	Mitsui & Co., Ltd.	100	Acquired	Feed additives		1981
•Nutrius Inc.	Kingsburg, CA	Mitsui & Co., Ltd.	100	Acquired	Feed additives		1984
Nutrius Inc.	Manson, IA	Mitsui & Co., Ltd.	100	Acquired	Feed additives		1983
Nutrius Inc.	Louisville, KY	Mitsui & Co., Ltd.	100	Acquired	Feed additives		1981
Oak-Mitsui, Inc.	Hoosick Falls, NY	Mitsui Mining & Smelting Co., Ltd. Oak Industries Inc.	20 80	New	Electro-deposited copper foil	165	1976
Okabashi (U.S.) Corp.	Buford, GA	Okabashi Co., Ltd.	Minority share	New	Men's/women's sandals/other footwear	20	1982
Oki America Inc.	Norcross, GA	Oki Electric Industry Co., Ltd.	100	New	Electronic private branch exchanges, cellular mobile communications equipment	150	1984
•Oki Semiconductor Inc.	Sunnyvale, CA	Oki Electric Industry Co., Ltd.	100	New	Integrated circuits	30	1984
Olympic Wood Products Inc.	Shelton, WA	Takeuchi Lumber Co., Ltd. Kanda Corp. Aika Kogyo Co., Ltd.	50 40 10	New	Lumber	15	1982
•Omega Tube and Conduit Corp.	Little Rock, AR	Sumitomo Metal Industries, Ltd. Sumitomo Corp. Quality Metals Inc.	80 10 10	New	Welded steel tubing	150*	1985*
Orange Bakery Inc.	Irvine, CA	Rheon Automatic Machinery Co., Ltd.	100	New	Bakery products	50	1979
•Orange Bakery Inc.	Irvine, CA	Rheon Automatic Machinery Co., Ltd.	100	New	Bakery products	15*	1985*
Orient Shimazaki Chemical Corp.	Newark, NJ	Shimazaki Corp. Orient Chemical Industries Co., Ltd.	n.a. n.a.	New	Nigrosine (black dye)	n.a.	1981
Pacific Propeller, Inc.	Kent, WA	Minebea Co., Ltd.	100	Acquired	Aircraft propellers	95	1982
•Pasco Corp. of America	Torrance, WA	Shikishima Baking Co., Ltd. Nissho Iwai Corp.	85 15	New	Bakery products	28	1984
Pearl International Corp.	Nashville, TN	Pearl Musical Instrument Co.	100	New	Musical drums	45	1979
Peter Pan Seafoods Inc.	Dillingham, AK	Nichiro Gyogyo Kaisha, Ltd.	100	Acquired	Canned fish	90	1979
Peter Pan Seafoods Inc.	King Cove, AK	Nichiro Gyogyo Kaisha, Ltd.	100	Acquired	Canned/frozen fish	290	1979
Peter Pan Seafoods Inc.	Port Moller, AK	Nichiro Gyogyo Kaisha, Ltd.	100	Acquired	Frozen fish	120	1979
Pioneer Video, Inc.	Carson, CA	Pioneer Electronic Corp.	100	Acquired	Video discs	150	1982
Pyr Coat Inc.	Houston, TX	Mitsui & Co., Ltd.	60	Acquired	Fireproof coatings, fireproof insulation/adhesives, asbestos encapsulation/removal products	5	1983
Rakuyo Ken U.S.A. Inc.	Honolulu, HI	Rakuyo Shokuhin Co., Ltd.	100	New	Shumai	8	1981
•Rion Acoustic Instruments, Inc.	Torrance, CA	Rion Co., Ltd.	100	New	Custom-designed hearing aids	3	1984

Company	Plant Location	Parent	Share	New or Acquired	Product Line	Employees	Year Plant Opened or Acquired
S & B International Corp.	Torrance, CA	S & B Shokuhin Co., Ltd.	100	New	Seasoning mixes	4	1975
SDS Biotech Corp.	Princeton, NJ	Showa Denko K.K. Diamond Shamrock Corp.	50 50	Acquired	Animal health products	1,000	1983
SDS Biotech Corp.	Greens Bayou, TX	Showa Denko K.K. Diamond Shamrock Corp.	50 50	Acquired	Agricultural chemicals		1983
SMK Manufacturing Inc.	Placentia, CA	Showa Musen Kogyo Co., Ltd.	100	Acquired	Connectors	100	1981
Sanoh Manufacturing Corp.	San Diego, CA	Sanoh Industrial Co., Ltd. Sanyo Electric Co., Ltd.	80 20	New	Refrigerator parts	27	1981
•Scripto Tokai Inc.	Doraville, GA	Tokai Seiki Co., Ltd.	100	Acquired	Writing instruments	325	1984
Shindo International, Inc.	New York, NY	Shindo Shashin Seikan K.K.	100	New	Color separation, offset printing	n.a.	1978
Shinko Electric America Inc.	Manteca, CA	Shinko Electric Co., Ltd.	100	New	Lead frames for integrated circuits	34	1983
Sierracin Glass Transparencies Inc.	Sylmar, CA	Asahi Glass Co., Ltd. Sierracin Corp.	50 50	New	Glass transparencies for aircraft	50	1982
Sony Magnetic Products Inc. of America	Laredo, TX	Sony Corp.	100	New	Audio cassette tapes	48	1979
Southern Metal Service, Inc.	Gulfport, MS	Kanematsu-Gosho, Ltd.	100	New	Steel processing	35	1973
Stanley Electric U.S. Co., Inc.	London, OH	Stanley Electric Co., Ltd.	100	New	Automotive/motorcycle lighting equipment	60	1982
•Sumitomo Electric Research Triangle, Inc.	Research Triangle, NC	Sumitomo Electric Industries, Ltd.	100	New	Fiber-optic cables	200	1985
•Sumitomo Metal Mining California Corp.	Fremont, CA	Sumitomo Metal Mining Co., Ltd.	100	New	Lead frames for integrated circuits	100*	1985*
•Systems Magnetic Co.	Anaheim, CA	Hitachi Metals, Ltd.	100	Acquired	Voice coil motors for computer disk drives	210	1984
•TNS Mills, Inc.	Eufaula, AL	Tsuzuki Spinning Co., Ltd.	100	Acquired	Cotton yarn	150	1985
TNS Mills, Inc.	Spartanburg, SC	Tsuzuki Spinning Co., Ltd.	100	New	Cotton-blend sheeting, polyester-cotton blend yarn	170	1982
TYK Swank Refractories Co.	Irvona, PA	Tokyo Yogyo Co., Ltd.	100	Acquired	Steel industry refractory products	30	1982
Takasago Corp. USA	Teterboro, NJ	Takasago Perfumery Co., Ltd.	100	Acquired	Food flavoring compounds	35	1984
•Takeda Chemical Products U.S.A. Inc.	Wilmington, NC	Takeda Chemical Industries, Ltd.	100	New	Vitamin B_1	25*	1986*
Teenform Group	Miami, FL	Wacoal Corp.	100	Acquired	Women's intimate apparel	60	1983
Teenform Group	Luquio, PR	Wacoal Corp.	100	Acquired	Women's intimate apparel	250	1983
Templock/AFM Inc.	Carpinteria, CA	Nippon Automatic Fine Machinery Co., Ltd. Marubun Corp. Templock Corp.	39 10 51	New	Heat-shrinkable plastic material application machinery	n.a.	1981
Thin Film Technology Corp.	North Mankato, MN	Susumu Co., Ltd.	100	New	Thin-film resistive electronic components	50	1982
Togiak Fisheries, Inc.	Togiak, AK	Marubeni Corp.	Majority share	Acquired	Canned/frozen fish	140	1972
Tokai of America Inc.	Rancho Cucamonga, CA	Tokai Seiki Co., Ltd.	100	New	Disposable cigarette lighters	40	1982
Tomoegawa (U.S.A.) Inc.	Wheeling, IL	Tomoegawa Paper Co., Ltd.	100	New	Toner/developer/other consummable supplies for photocopying industry	50	1980
Totaku America Corp.	Compton, CA	Totaku Industries Inc.	100	New	Plastic/rubber flexible hose	50	1974

Company	Plant Location	Parent	Share	New or Acquired	Product Line	Employees	Year Plant Opened or Acquired
Toyojamco, Ltd.	York, PA	Japan Automatic Machine Co., Ltd.	50	New	Components for automatic crimping machinery	15	1983
		Oriental Terminal Products Co., Ltd.	50				
Tri-Con Industries, Ltd.	Cape Girardeau, MO	Tokyo Seat Co., Ltd.	100	New	Automotive seats	470	1983
Tri-Con Industries, Ltd.	Columbia, MO	Tokyo Seat Co., Ltd.	100	New	Automotive seats	250	1983
•Tri-Con Industries, Ltd.	Lincoln, NE	Tokyo Seat Co., Ltd.	100	New	Automotive seat frames	30*	1985*
Tube Turns Inc.	Louisville, KY	Sumitomo Metal Industries, Ltd.	49	Acquired	Welded steel fittings, forgings, engineered products	300	1983
		Sumitomo Corp.	49				
		Sumitomo Bank, Ltd.	2				
UGM, Inc.	Santa Clara, CA	Tokyo Tan-Ichi Co., Ltd.	100	New	Metal stampings for integrated circuit lead frames	9	1976
U.S. Fuji Electric Inc.	Piscataway, NJ	Fuji Electric Co., Ltd.	100	New	Photo-sensitive drums for copiers	30	1983
US JVC Corp.	Elmwood Park, NJ	Victor Co. of Japan, Ltd.	100	New	Color television sets	45	1982
USR Optinix Inc.	Hackettstown, NJ	Mitsubishi Chemical Industries, Ltd.	100	Acquired	Fluorescent material for cathode ray tube displays	50	1981
Union Inc.	Costa Mesa, CA	Union Trading Co., Inc.	100	New	Instant noodles	120	1976
•Universal Magnetics, Inc.	Chatsworth, CA	Minebea Co., Ltd.	100	Acquired	Direct-current motors for computer equipment	100	1984
Universal Seafoods Ltd.	Dutch Harbor, AK	Nippon Suisan Kaisha, Ltd.	47	New	Frozen fish	100	1975
Universal Seafoods Ltd.	Redmond, WA	Nippon Suisan Kaisha, Ltd.	47	New	Frozen fish	200	1975
•VAM-PTS Co.	Houston, TX	Sumitomo Metal Industries, Ltd. / Sumitomo Corp.	49	Acquired	Steel threading for oil/gas drilling pipe	130	1984
		Vallourec S.A.	51				
Viam Manufacturing Inc.	Santa Fe Springs, CA	Japan Vilene Co., Ltd.	60	New	Automotive mats	50	1984
		Dainippon Ink & Chemicals Inc.	40				
Wards Cove Packing Co., Inc.	Alitak, AK	Marubeni Corp.	Minority share	Acquired	Canned/frozen fish		1973
Wards Cove Packing Co., Inc.	Ekuk, AK	Marubeni Corp.	Minority share	Acquired	Canned/frozen fish		1973
Wards Cove Packing Co., Inc.	Excursion Inlet, AK	Marubeni Corp.	Minority share	Acquired	Canned/frozen fish		1973
Wards Cove Packing Co., Inc.	Icy Cape, AK	Marubeni Corp.	Minority share	Acquired	Canned/frozen fish		1973
Wards Cove Packing Co., Inc.	Kenai, AK	Marubeni Corp.	Minority share	Acquired	Canned/frozen fish	1,500	1973
Wards Cove Packing Co., Inc.	Ketchikan, AK	Marubeni Corp.	Minority share	Acquired	Canned fish		1973
Wards Cove Packing Co., Inc.	Naknek, AK	Marubeni Corp.	Minority share	Acquired	Canned/frozen fish		1973
Wards Cove Packing Co., Inc.	Port Bailey, AK	Marubeni Corp.	Minority share	Acquired	Canned/frozen fish		1973
Warner-Ishi Corp.	Shelbyville, IL	Ishikawajima-Harima Heavy Industries Co., Ltd.	50	New	Automotive turbochargers	100*	1985*
		Borg-Warner Corp.	50				
Western Alaska Fisheries, Inc.	Kodiak, AK	Taiyo Fishery Co., Ltd.	100	New	Canned/frozen fish	35	1963

Company	Plant Location	Parent	Share	New or Acquired	Product Line	Employees	Year Plant Opened or Acquired
Whitney-Fidalgo Seafoods, Inc.	Anchorage, AK	Kyokuyo Co., Ltd.	98	Acquired	Canned/frozen fish		1973
Whitney-Fidalgo Seafoods, Inc.	Dutch Harbor, AK	Kyokuyo Co., Ltd.	98	Acquired	Frozen fish		1973
Whitney-Fidalgo Seafoods, Inc.	Kodiak, AK	Kyokuyo Co., Ltd.	98	Acquired	Canned fish		1973
Whitney-Fidalgo Seafoods, Inc.	Naknek, AK	Kyokuyo Co., Ltd.	98	Acquired	Canned fish	1,000	1973
Whitney-Fidalgo Seafoods, Inc.	Uyak, AK	Kyokuyo Co., Ltd.	98	Acquired	Canned fish		1973
Whitney-Fidalgo Seafoods, Inc.	Anacortes, WA	Kyokuyo Co., Ltd.	98	Acquired	Canned fish		1973
•Woodward Iodine Corp.	Woodward, OK	Ise Chemical Industries Co., Ltd.	80	Acquired	Iodine	18	1984
		Asahi Glass Co., Ltd.	20				
•Wynn-Kiki Inc.	Fort Worth, TX	Diesel Kiki Co., Ltd.	50	Acquired	Compressors/evaporators for automotive air conditioners	90	1984
		Wynn Industries, Inc.	50				

n.a. not available
* Projected
** The Howmet Aluminum name may be used until August 29, 1985.
• Previously unlisted plants that went into operation during 1984 or were under construction on December 31, 1984, as well as acquisitions that were finalized in 1984.

Appendix 2: U.S. Manufacturing Affiliates of Japanese Companies by State

Alabama
•CoilPlus, Inc.
•Metco America Inc.
•TNS Mills, Inc.

Alaska
Bering Sea Fisheries, Inc.
Dutch Harbor Seafoods Co., Inc.
North Pacific Processors Inc. (3)
Peter Pan Seafoods Inc. (3)
Togiak Fisheries, Inc.
Universal Seafoods Ltd.
Wards Cove Packing Co., Inc. (8)
Western Alaska Fisheries, Inc.
Whitney-Fidalgo Seafoods, Inc. (5)

Arizona
Alumax Inc., Alumax Fabricated Products, Inc.
Chickasha Cotton Oil Co.
NKK Switches of America, Inc.

Arkansas
Alumax Inc., Howmet Aluminum
Alumax Inc., Kawneer Co., Inc.
Nutrius Inc.
•Omega Tube and Conduit Corp.

California
Alloy Tool Steel Inc.
Alumax Inc., Alumax Fabricated Products, Inc. (2)
Alumax Inc., Howmet Aluminum (3)
American Foods Corp. (4)
Amsnack, Inc.
CTY Corp.
•California Steel Industries Inc.
•Chateau St. Jean
Concise Casting Corp.
Cryodynamics Co.-Ebara Group
•Curtis-Maruyasu America, Inc.
•Dainippon Screen Engineering of America Inc.
Daiwa Golf Co.
Forman Industries Inc.
•Hirose Electric (U.S.A.), Inc.
Hitachi Consumer Products of America Inc.
Hi-Tek Corp.
House Foods and Yamauchi Inc.
IDEC Systems & Controls Corp.
IKS American Corp.
International Leadframe Corp.
•International Light Metals Corp.
Kaga USA Inc.
Kato Spring Inc.
Kikusui International Corp.
Lafayette Metal Service Corp.
•Maruhachi Ceramics of America
Master Fence Fittings Inc.
Matheson Gas Products Inc. (2)
Matsushita Electronic Components Co.
Megatool Inc.
Memorex DIC Corp.
Mitutoyo Corp.
NEC America, Inc.
NEC Electronics U.S.A. Inc.
•New United Motor Manufacturing Inc.
Nidek Inc.
Niitakaya USA Inc.
•Nitto Denko America, Inc.
•Nutrius Inc. (3)
•Oki Semiconductor Inc.
•Orange Bakery Inc. (2)
•Pasco Corp. of America
Pioneer Video, Inc.
•Rion Acoustic Instruments, Inc.
S & B International Corp.
SMK Manufacturing Inc.
Sanoh Manufacturing Corp.
Shinko Electric America Inc.
Sierracin Glass Transparencies Inc.
•Sumitomo Metal Mining California Corp.
•Systems Magnetic Co.
Templock/AFM Inc.
Tokai of America Inc.
Totaku America Corp.
UGM, Inc.
Union Inc.
•Universal Magnetics, Inc.
Viam Manufacturing Inc.

Colorado
Alumax Inc., Kawneer Co., Inc.
Data Ray Corp.

Connecticut
•Nidec Torin Corp.

Delaware
No Listings

Florida
•ASTRONET Corp.
Alumax Inc., Howmet Aluminum
Fujitsu America, Inc.
MCI Inc.
Teenform Group

Georgia
•Alumax Inc., Alumax Fabricated Products Inc.
Alumax Inc., Howmet Aluminum (5)
Amitech Inc.
High Voltage Breakers, Inc.

•Hitachi Chemical Co. America, Ltd.
Kato Spring of Georgia Inc.
•Kubota Tractor Corp.
Matheson Gas Products Inc.
•NEC Home Electronics (U.S.A.) Inc.
Okabashi (U.S.) Corp.
Oki America Inc.
•Scripto Tokai Inc.

Hawaii
Bunmeido of Hawaii Ltd.
Daiichiya Love's Bakery Inc.
Honma Golf, Inc.
Rakuyo Ken U.S.A. Inc.

Idaho
No additional listings

Illinois
Alumax Inc., Howmet Aluminum
•LyphoMed Inc.
Matheson Gas Products Inc.
•Matsushita Communication Co.
•National Steel Corp.
North American Lighting, Inc.
Tomoegawa (U.S.A.) Inc.
Warner-Ishi Corp.

Indiana
•Alumax Inc., Alumax Fabricated Products Inc.
Alumax Inc., Howmet Aluminum
Digital Audio Disc Corp.
•National Steel Corp.

Iowa
•Heartland Lysine, Inc.
Nutrius Inc.

Kansas
Alumax Inc., Howmet Aluminum

Kentucky
ATR Wire and Cable Co.
Alumax Inc., Howmet Aluminum
Nutrius Inc.
Tube Turns Inc.

Louisiana
Matheson Gas Products Inc.

Maine
No additional listings

Maryland
No additional listings

Massachusetts
•Cape Cod Potato Chips
•Kameyama U.S.A. Inc.
Matheson Gas Products Inc.
NEC Information Systems, Inc.

Michigan
Alumax Inc., Howmet Aluminum (2)
Cast Forge Co.
FEC Inc.
•Hemlock Semiconductor Corp.
•Musashi USA Inc.
•National Steel Corp.
Nikko Wolverine Inc.
Nippondenso Sales, Inc.

Minnesota
Thin Film Technology Corp.

Mississippi
Southern Metal Service, Inc.

Missouri
Alumax Inc., Howmet Aluminum (2)
Bio Kyowa Inc.
Fotomat Corp.
Kel-Am, Inc.
Tri-Con Industries, Ltd. (2)

Montana
No listings

Nebraska
Diamond Plastics Corp.
•Tri-Con Industries, Ltd.

Nevada
No listings

New Hampshire
Coca-Cola Bottling Co.

New Jersey
•Iwatsu America Inc.
MCI Optinix Inc.
Matheson Gas Products Inc.
•NSG America Inc.
Orient Shimazaki Chemical Corp.
SDS Biotech Corp.
Takasago Corp. USA
U.S. Fuji Electric Inc.
US JVC Corp.
USR Optinix Inc.

New Mexico
No listings

New York
Economic Salon, Ltd.
IMC Magnetics Corp.
Oak-Mitsui, Inc.
Shindo International, Inc.

North Carolina
Alumax Inc., Alumax Extrusions, Inc.
Alumax Inc., Howmet Aluminum
Fuji Cone Inc.
Fuji Foods Inc.
Honda Power Equipment Manufacturing Inc.
Kibun Corp. of North Carolina
•Mitsubishi Semiconductor America Inc.
•Sumitomo Electric Research Triangle, Inc.
•Takeda Chemical Products U.S.A. Inc.

North Dakota
No listings

Ohio
ALCOA-NEC Communications Corp.
Alumax Inc., Howmet Aluminum
Alumax Inc., Kawneer Co., Inc.
•Ando Screen Inc.
•Bellemar Parts Industries Inc. (2)
•Eaton Auto Products Manufacturing Inc.
Fotomat Corp.
Fujitec Industries, Inc.
•Honda of America Mfg., Inc.
•KTH Parts Industries Inc.
LeBlond Makino Machine Tool Co.
Matheson Gas Products Inc.
Stanley Electric U.S. Co., Inc.

Oklahoma
Chickasha Cotton Oil Co.
North American Brine Resources
•Woodward Iodine Corp.

Oregon
Enway Inc.
•NEC America, Inc.

Pennsylvania
Alumax Inc., Howmet Aluminum (6)
TYK Swank Refractories Co.
Toyojamco Ltd.

Rhode Island
Machine Specialties Co.

South Carolina
TNS Mills, Inc.

South Dakota
No additional listings

Tennessee
Bridgestone Tire Manufacturing (U.S.A.), Inc.
Calsonic Manufacturing Corp.
Clarion Corp. of America
•Kantus Corp.
•Nisco Steel Services Inc.
Pearl International Corp.

Texas
Alloy Tool Steel of Texas Inc.
•Alumax Inc., Alumax Mill Products Inc.
Alumax Inc., Howmet Aluminum (10)
Alumax Inc., Kawneer Co., Inc.
Chickasha Cotton Oil Co. (2)
Diamond Plastics Corp.
First Metals, Inc.
Fuji Koki America Inc.
Fujitsu America, Inc.
Halco Fence & Wire Co.
Kaneka Texas Corp.
Matheson Gas Products Inc.
•Nisshin Gulf Coast Inc.
Pyr Coat Inc.
SDS Biotech Corp.
Sony Magnetic Products Inc. of America
•VAM-PTS Co.
•Wynn-Kiki Inc.

Utah
No listings

Vermont
No additional listings

Virginia
Amano-International Enzyme Co., Inc.

Washington
Alpha Biochemical Corp.
Alumax Inc., Howmet Aluminum
International Titanium Inc.
Japan Aircraft Maintenance (America), Inc.
Kibun Corp. of Washington
•Kyocera Northwest Inc.
Nichimo Northwest, Inc.
Nintendo of America, Inc.
Olympic Wood Products Inc.
Pacific Propeller, Inc.
Universal Seafoods Ltd.
Whitney-Fidalgo Seafoods, Inc.

West Virginia
No listings

Wisconsin
No additional listings

Wyoming
No listings

Puerto Rico
Caribe Isoprene Corp.
Matsushita Electric of Puerto Rico, Inc.
Mitsubishi Foods Inc.
Neptune Packing Corp.
Teenform Group

•Previously unlisted plants that went into operation during 1984 or were under construction on December 31, 1984, as well as acquisitions that were finalized in 1984.

Note: A number in parentheses indicates that the relevant company has plants in more than one location in the state.

Appendix 3: U.S. Manufacturing Affiliates of Japanese Companies by Product Line

Food Products		
2013	Shumai	Rakuyo Ken U.S.A. Inc.
2034	Instant noodles	Union Inc.
2035	Cooking wines	American Foods Corp. (2)
	Sauces	American Foods Corp.
	Pickles	Niitakaya USA Inc.
2037	Frozen potato products	Enway Inc.
2051	Bakery products	Bunmeido of Hawaii Ltd.
	Bakery products	Daiichiya Love's Bakery Inc.
	Bakery products	•Orange Bakery Inc.(2)
	Bakery products	•Pasco Corp. of America
2052	Rice crackers	Amsnack, Inc.
2074	Cottonseed oil	Chickasha Cotton Oil Co. (4)
2077	Binder for fish feed	Alpha Biochemical Corp.
2084	Wine	•Chateau St. Jean
2086	Soft drinks	Coca-Cola Bottling Co.
2091	Canned fish	Mitsubishi Foods Inc.
	Canned fish	Neptune Packing Corp.
	Canned fish	North Pacific Processors Inc. (3)
	Canned fish	Peter Pan Seafoods Inc. (2)
	Canned fish	Togiak Fisheries, Inc.
	Canned fish	Wards Cove Packing Co., Inc. (8)
	Canned fish	Western Alaska Fisheries, Inc.
	Canned fish	Whitney-Fidalgo Seafoods, Inc. (5)
2092	Frozen fish	Bering Sea Fisheries, Inc.
	Frozen fish	Dutch Harbor Seafoods Co., Inc.
	Frozen fish	North Pacific Processors Inc. (3)
	Frozen fish	Peter Pan Seafoods Inc. (2)
	Frozen fish	Togiak Fisheries, Inc.
	Frozen fish	Universal Seafoods Ltd. (2)
	Frozen fish	Wards Cove Packing Co., Inc. (7)
	Frozen fish	Western Alaska Fisheries, Inc.
	Frozen fish	Whitney-Fidalgo Seafoods, Inc. (2)
	Frozen seafood	Kibun Corp. of North Carolina
	Frozen seafood	Kibun Corp. of Washington
2099	Potato chips	•Cape Cod Potato Chips
	Beef/chicken extracts for soup stocks	Fuji Foods Inc.
	Tofu/related soybean products	House Foods and Yamauchi Inc.
	Seasoning mixes	S & B International Corp.
	Vinegar	American Foods Corp. (4)
Tobacco Manufactures		
No listings		
Textile Mill Products		
2211	Cotton-blend sheeting	TNS Mills, Inc.
2271	Automotive mats	Viam Manufacturing Inc.
2281	Cotton yarn	•TNS Mills, Inc.
	Polyester-cotton blend yarn	TNS Mills, Inc.
Apparel and Made-up Textile Products		
234	Women's intimate apparel	Teenform Group (2)
2399	Gill nets	Nichimo Northwest, Inc.
Lumber and Wood Products		
2421	Lumber	Olympic Wood Products Inc.
Furniture and Fixtures		
2517	Speaker boxes	Matsushita Electric of Puerto Rico, Inc.
2599	Kiosks	Fotomat Corp.
Paper and Paper Products		
No additional listings		
Printing and Publishing		
2721	Periodicals publishing	Economic Salon, Ltd.
2752	Color separation, offset printing	Shindo International, Inc.
Chemicals and Related Products		
2813	Specialty gases	Matheson Gas Products Inc. (9)
2819	Fluorescent material for cathode ray tube displays	USR Optinix Inc.
	Iodine	North American Brine Resources
	Iodine	•Woodward Iodine Corp.
2821	Methyl methacrylate-butadiene-styrene resins	Kaneka Texas Corp.
2822	Isoprene monomer, dicyclo-pentadiene, piperylene	Caribe Isoprene Corp.
2833	Vitamin B1	•Takeda Chemical Products U.S.A. Inc.
2834	Injectable drugs	•LyphoMed Inc.
	Animal health products	SDS Biotech Corp.
2865	Nigrosine (black ink)	Orient Shimazaki Chemical Corp.
2869	Enzymes	Amano-International Enzyme Co., Inc.
	Food flavoring compounds	Takasago Corp. USA
	Feed additives	•Nutrius Inc. (6)
	Lysine (feedstuff amino acid additive)	Bio Kyowa Inc.
	Lysine (feedstuff amino acid additive)	•Heartland Lysine, Inc.
	Impact modifiers for plastics industry	•Metco America Inc.
2879	Agricultural chemicals	SDS Biotech Corp.
2899	Fireproof coatings, fireproof spray insulation/adhesives, asbestos encapsulation/removal products	Pyr Coat Inc.
Petroleum Refining		
No additional listings		
Rubber and Miscellaneous Plastic Products		
3011	Radial truck/bus tires	Bridgestone Tire Manufacturing (U.S.A.), Inc.
3041	Plastic/rubber flexible hose	Totaku America Corp.

3079	Polyvinyl chloride pipes	Diamond Plastics Corp. (2)
	Plastic parts for electronics industry/medical uses	Amitech Inc.
	Custom fluoropolymer linings for corrosion resistance	•Nisshin Gulf Coast Inc.
Leather and Leather Products		
314	Men's/women's sandals/ other footwear	Okabashi (U.S.) Corp.
Stone, Clay, Glass and Concrete Products		
3231	Glass transparencies for aircraft	Sierracin Glass Transparencies Inc.
3259	Roofing tiles	•Maruhachi Ceramics of America
3297	Steel industry refractory products	TYK Swank Refractories Co.
Primary Metals		
3312	Hot-rolled, cold-rolled/ galvanized steel sheets/ coils, hot-rolled steel plates	•California Steel Industries Inc.
	Steel slabs/hot-rolled, cold-rolled/coated steel sheets	•National Steel Corp.
	Cold-rolled, coated/tin-plate sheets	•National Steel Corp.
	Steel slabs/hot-rolled/ cold-rolled steel sheets	•National Steel Corp.
3317	Welded steel tubing	•Omega Tube and Conduit Corp.
3339	Titanium sponge	International Titanium Inc.
	Polycrystalline silicon	•Hemlock Semiconductor Corp.
3341	Secondary aluminum slab/billet	Alumax Inc., Howmet Aluminum
	Recycled aluminum scrap	Alumax Inc., Howmet Aluminum (3)
3353	Aluminum sheet	•Alumax Inc. Alumax Mill Products Inc.
	Aluminum sheet/coil	Alumax Inc., Howmet Aluminum (2)
3354	Aluminum extruded shapes	Alumax Inc., Alumax Extrusions, Inc.
	Aluminum extruded shapes	Alumax Inc., Howmet Aluminum
	Aluminum bars/extrusions	•International Light Metals Corp.
3356	Titanium bars/extrusions	•International Light Metals Corp.
	Titanium/zirconium tubes/pipe	Nikko Wolverine Inc.
3361	Aluminum castings	Concise Casting Corp.
Fabricated Metal Products		
344	Steel processing	Alloy Tool Steel Inc.
	Steel processing	Alloy Tool Steel of Texas Inc.
	Steel processing	•CoilPlus, Inc.
	Steel processing	First Metals, Inc.
	Steel processing	Lafayette Metal Service Corp.
	Steel processing	•Nisco Steel Services Inc.
	Steel processing	Southern Metal Service, Inc.
	Aluminum/copper/steel processing	Alumax Inc., Howmet Aluminum (6)
3442	Aluminum bath enclosures	Alumax Inc., Howmet Aluminum (3)
	Aluminum garage doors	Alumax Inc., Howmet Aluminum
	Aluminum products for commercial remodeling	Alumax Inc., Howmet Aluminum
3444	Aluminum products for housing aftermarket	Alumax Inc., Alumax Fabricated Products, Inc. (3)
	Aluminum products for housing aftermarket	Alumax Inc., Howmet Aluminum (7)
	Aluminum products for mobile homes/recreational vehicles	Alumax Inc., Howmet Aluminum (7)
	Aluminum products for housing aftermarket/mobile homes	•Alumax Inc., Alumax Fabricated Products, Inc. (2)
	Aluminum rain-carrying components/other building products	Alumax Inc., Howmet Aluminum (5)
	Aluminum spectator seating, scaffolding, ceiling grid systems, custom fabricated work	Alumax Inc., Howmet Aluminum
	Sheet-metal ducts	Forman Industries, Inc.
3446	Architectural aluminum products	Alumax Inc., Kawneer Co., Inc. (3)
3462	Steel forgings	Tube Turns Inc.
3463	Aluminum wheels/other die-cast aluminum automotive products	Cast Forge Co.
	Aluminum/titanium forgings	•International Light Metals Corp.
3465	Automotive body stampings	•New United Motor Manufacturing Inc.
	Automotive seat frames	•Tri-Con Industries, Ltd.
3469	Lead frames for integrated circuits	International Leadframe Corp.
	Lead frames for integrated circuits	Shinko Electric America Inc.
	Lead frames for integrated circuits	•Sumitomo Metal Mining California Corp.
	Lead frames/other metal parts for integrated circuits	Kaga USA Inc.
	Metal stampings for integrated circuit lead frames	UGM, Inc.
3494	Welded steel fittings, engineered products	Tube Turns Inc.
	Expansion valves for automotive air conditioning systems	Fuji Koki America Inc.
3495	Precision springs	Kato Spring Inc.
	Precision springs	Kato Spring of Georgia Inc.
3496	Chain link	Halco Fence & Wire Co.
	Fittings for metal fencing	Master Fence Fittings Inc.
	Steel cord/bead wire for tires	ATR Wire and Cable Co.
3497	Electro-deposited copper foil	Oak-Mitsui, Inc.
3498	Steel threading for oil/gas drilling pipe	•VAM-PTS Co.
Nonelectric Machinery		
3523	Farm tractors	•Kubota Tractor Corp.
3524	Lawnmowers	Honda Power Equipment Manufacturing Inc.
3534	Elevators, escalators	Fujitec Industries, Inc.
3541	Numerically controlled lathes, machining centers	LeBlond Makino Machine Tool Co.
	Numerical controls	LeBlond Makino Machine Tool Co.
3546	Carbide drills	Megatool Inc.
3555	Electronic page makeup systems/ color scanners for graphic arts industry	•Dainippon Screen Engineering of America Inc.

3559	Components for automatic crimping machinery	Toyojamco Ltd.
3561	Pumps for low-temperature liquids	Cryodynamics Co.-Ebara Group
3562	Ball bearings	IKS American Corp.
3564	Fans/blowers for communications/ computer equipment	IMC Magnetics Corp.
	Small horsepower fans for computer motors	•Nidec Torin Corp.
3568	Pulleys	Machine Specialties Co.
3569	Specialty gas handling equipment	Matheson Gas Products Inc. (9)
	Screening equipment for liquid-solid separation	•Ando Screen Inc.
	Electronic fastening systems	FEC Inc.
	Heat-shrinkable plastic material application machinery	Templock/AFM Inc.
3573	Computers/peripheral equipment	NEC Information Systems, Inc.
	Computer keyboards	Hi-Tek Corp.
	CRT display modules	Data Ray Corp.
3585	Compressors/evaporators for automotive air conditioners	•Wynn-Kiki Inc.
3599	Membrane modules for recovery of electrodeposited paint	•Nitto Denko America, Inc.

Electric Machinery and Electronics

3613	Circuit breakers for power plants/transmission lines	High Voltage Breakers, Inc.
3621	Electric motors	IMC Magnetics Corp.
	Voice-coil motors for computer disk drives	•Systems Magnetic Co.
	Direct-current motors for computer equipment	•Universal Magnetics, Inc.
	Motors for phonographs/audio equipment	Matsushita Electric of Puerto Rico, Inc.
3632	Refrigerator parts	Sanoh Manufacturing Corp.
3643	Electric/electronic switches	NKK Switches of America, Inc.
3647	Automotive lighting equipment	North American Lighting, Inc.
	Automotive/motorcycle lighting equipment	Stanley Electric U.S. Co., Inc.
3651	Color television sets	Hitachi Consumer Products of America Inc.
	Color television sets	•NEC Home Electronics (U.S.A.) Inc.
	Color television sets	US JVC Corp.
	Automotive radio combinations	Clarion Corp. of America
	Recording studio equipment	MCI Inc.
	Stereo speakers, record changers	Matsushita Electric of Puerto Rico, Inc.
	Paper cones for stereo speakers	Fuji Cone Inc.
3652	Digital audio discs	Digital Audio Disc Corp.
	Video discs	Pioneer Video, Inc.
3661	Electronic private branch exchanges	Oki America Inc.
	Key telephone systems	•Iwatsu America Inc.
3662	Cellular mobile communications equipment	•ASTRONET Corp.
	Cellular mobile communications equipment	•Matsushita Communication Co.
	Cellular mobile communications equipment	Oki America Inc.
	Cellular mobile communications equipment, mobile paging devices	NEC America, Inc.
	Cellular mobile/fiber-optic communications equipment, multiplexers, microwave radios	Fujitsu America, Inc.
	Fiber-optic communications equipment	•NEC America, Inc.
	Satellite television receiving systems	ALCOA-NEC Communications Corp.
	Video game machines	Nintendo of America, Inc.
3674	Integrated circuits	Matsushita Electronic Components Co.
	Integrated circuits	•Mitsubishi Semiconductor America Inc.
	Integrated circuits	NEC Electronics U.S.A. Inc.
	Integrated circuits	•Oki Semiconductor Inc.
3675	Axial capacitors	CTY Corp.
	Ceramic capacitors	•Kyocera Northwest Inc.
3676	Thin-film resistive electronic components	Thin Film Technology Corp.
3678	Connectors	•Hirose Electric (U.S.A.), Inc.
	Connectors	Kel-Am, Inc.
	Connectors	SMK Manufacturing Inc.
3679	Audio cassette tapes	Sony Magnetic Products Inc. of America
	Multiwire boards	•Hitachi Chemical Co. America, Ltd.
	Cable assemblies, power supply units/related components for computers/peripheral equipment	Fujitsu America, Inc.
	Relays, sockets, switches/other electrical industrial components	IDEC Systems & Controls Corp.
3693	X-ray intensifying screens for medical use	MCI Optinix Inc.

Transportation Equipment

3711	Cars	•New United Motor Manufacturing Inc.
3714	Automotive air conditioners, exhaust assemblies	Calsonic Manufacturing Corp.
	Automotive exhaust systems, catalytic converters, brake lines, door sashes	•Bellemar Parts Industries Inc.
	Automotive fuel line/ hydraulic brake assemblies	•Curtis-Maruyasu America, Inc.
	Automotive turbochargers	Warner-Ishi Corp.
	Automotive windshield washers/heaters	Nippondenso Sales, Inc.
	Automotive seats	Tri-Con Industries, Ltd. (2)
	Automotive seats, wheels	Bellemar Parts Industries Inc.
	Automotive steering wheels	•Eaton Auto Products Manufacturing Inc.
	Automotive arm bushing/joint assemblies	•Musashi USA Inc.

	Automotive plastic instrument panels, radiator grilles, console boxes/bumpers	•Kantus Corp.
	Automotive stamped/welded internal structural components	•KTH Parts Industries Inc.
3728	Aircraft propellers	Pacific Propeller, Inc.
	Aircraft interior equipment	Japan Aircraft Maintenance (America), Inc.
3751	Motorcycle engines	•Honda of America Mfg., Inc.
	Motorcycle seats	Bellemar Parts Industries Inc.
Precision, Medical and Photographic Equipment		
3825	Oscilloscopes	Kikusui International Corp.
3829	Calipers, micrometers	Mitutoyo Corp.
3832	Fiber-optic lens	•NSG America Inc.
	Fiber-optic cables	•Sumitomo Electric Research Triangle, Inc.
3841	Auto-refractometers, photocoagulators/other ophthalmologic instruments	Nidek Inc.
3842	Custom-designed hearing aids	•Rion Acoustic Instruments, Inc.
3861	Photographic chemicals	Fotomat Corp.
	Photo-sensitive drums for copiers	U.S. Fuji Electric Inc.
	Toner/developer for copiers, duplicators/printers	Memorex DIC Corp.
	Toner/developer/other consummable supplies for photocopying industry	Tomoegawa (U.S.A) Inc.
Miscellaneous Manufactures		
3931	Musical drums	Pearl International Corp.
3949	Golf clubs	Daiwa Golf Co.
	Golf clubs	Honma Golf, Inc.
395	Writing instruments	•Scripto Tokai Inc.
3999	Disposable cigarette lighters	Tokai of America Inc.
	Candles	•Kameyama U.S.A. Inc.

•Previously unlisted plants that went into operation during 1984 or were under construction on December 31, 1984, as well as acquisitions that were finalized in 1984.

Note: Product lines are grouped in terms of the Standard Industrial Classification. A number in parentheses indicates that the relevant company produces its product line in more than one location.

Appendix 4: Changes in Previously Listed U.S. Manufacturing Affiliates of Japanese Companies

1. Companies Closed or Sold

Company	Plant Location	Parent	Product Line
Cathra International Corp.	St. Paul, MN	Ganze Sangyo, Inc.	Medical diagnostic equipment
		Tokyo Lease Co., Ltd.	
Ceradyne Inc.	Santa Ana, CA	Kyocera Corp.	Heat-resistant ceramics
Daitom Inc.	Kansas City, KS	Daiichi Seiyaku Co., Ltd.	Vitamin B complex
		Thompson-Hayward Chemical Co.	
Denka Chemical Corp.	Houston, TX	Denki Kagaku Kogyo K.K.	Chloroprene, maleic anhydride
Feltloc, Inc.	East Greenwich, RI	Dynic Corp.	Nonwoven cotton fabrics
Fujitsu America, Inc.	Melbourne, FL	Fujitsu, Ltd.	Word processing terminals
Harbor Seafood Co., Inc.	Wrangell, AK	Alaska Pulp Co., Ltd.	Canned/frozen fish
Hitachi Magna-Lock Corp.	Big Rapids, MI	Hitachi Metals, Ltd.	Magnetic/vacuum chucks
Infinity Systems, Inc.	Canoga Park, CA	Kyocera Corp.	Stereo speakers
KLH Research & Development Corp.	Canoga Park, CA	Kyocera Corp.	Stereo speakers
Kodiak King Crab, Inc.	Juneau, AK	Marubeni Corp.	Frozen fish
		Ocean Beauty Seafoods Inc.	
Kodiak King Crab, Inc.	Kodiak, AK	Marubeni Corp.	Canned/frozen fish
		Ocean Beauty Seafoods Inc.	
Kodiak Lumber Mills, Inc.	Anchorage, AK	Mitsui & Co., Ltd.	Logs, wood chips
Marcrest Pacific Co., Inc.	Carson, CA	Marubeni Corp.	Welded steel beams
		Crest Steel Corp.	
Meiwa U.S.A., Inc.	Charlotte, NC	Meiwa Gravure Chemical Co., Ltd.	Polyvinyl chloride sheeting
		Kanematsu-Gosho, Ltd.	
Morpac, Inc.	Cordova, AK	Nippon Suisan Kaisha, Ltd.	Canned fish
		Mitsui & Co., Ltd.	
Mount Pleasant Chemical Co.	Mt. Pleasant, TN	Sumitomo Chemical Co., Ltd.	Insecticides
		Sumitomo Corp.	
		Stauffer Chemical Co.	
Myojo Foods of America Inc.	Sidney, OH	Myojo Foods Co., Ltd.	Instant noodles
National Plywood, Inc.	Long Beach, CA	Mitsui & Co., Ltd.	Plywood
Oki Electronics of America, Inc.	Oakland Park, FL	Oki Electric Industry Co., Ltd.	Electronic private branch exchanges (output transferred to Norcross, GA)
Optical Information Systems Inc.	Elmsford, NY	Mitsubishi Chemical Industries, Ltd.	Semiconductor laser devices/ subsystems
Rosewood Knitting Mills, Inc.	Martinez, GA	Toyobo Co., Ltd.	Synthetic-fiber grey goods knitting
SMK Donnette Inc.	Chatsworth, CA	Showa Musen Kogyo Co., Ltd.	Connectors
Sekisui Products, Inc.	Linden, NJ	Sekisui Chemical Co., Ltd.	Polyethylene foam pipe insulation
Supergreen Inc.	Hazleton, PA	Kaiyo Bokujo Co., Ltd.	Packaged hydroponic radish sprouts
		Sekisui Plastics Co., Ltd.	
		Itoman & Co., Ltd.	
Topri Inc.	Peachtree City, GA	Tokyo Print Industry Co., Ltd.	Printed circuit boards
VHD Disc Manufacturing Co.	Irvine, CA	Victor Co. of Japan, Ltd.	Video discs
		Matsushita Electric Industrial Co., Ltd.	
		General Electric Co.	
		Thorn EMI Ltd.	
West Virginia Flat Glass Inc.	Clarksburg, WV	Asahi Glass Co., Ltd.	Flat glass

2. Merged Companies

Old Company	New Company
Emcon Inc. Viclan Inc.	Kyocera International, Inc.
Erie Technological Products Inc. JFD Electronic Components Inc. Murata Corp. of America	Murata Erie North America, Inc.

3. Permanently Closed or Sold Plants

Company	Plant Location	Parent	Product Line
Alaska Lumber and Pulp Co. Inc.	Wrangell, AK	Alaska Pulp Co., Ltd.	Lumber
Alumax Inc., Alumax Fabricated Products, Inc.	Twin Falls, ID	Mitsui & Co., Ltd. Nippon Steel Corp. AMAX Inc.	Aluminum irrigation tubing
Alumax Inc. Apex International Alloys, Inc.	Checotah, OK	Mitsui & Co., Ltd. Nippon Steel Corp. AMAX Inc.	Secondary aluminum/zinc alloys
Alumax Inc., Hillyard Aluminum Recovery Corp.	Fontana, CA	Mitsui & Co., Ltd. Nippon Steel Corp. AMAX Inc.	Dross recovery
Alumax Inc., Kawneer Co., Inc., South Bend Screw Products	South Bend, IN	Mitsui & Co., Ltd. Nippon Steel Corp. AMAX Inc.	Aluminum fasteners
Erie Technological Products Inc.	Erie, PA	Murata Mfg. Co., Ltd.	Ceramic capacitors
Hitachi Consumer Products of America Inc.	Compton, CA	Hitachi, Ltd.	Color televisions (output transferred to Anaheim, CA)
Murata Corp. of America	Douglasville, GA	Murata Mfg. Co., Ltd.	Ceramic capacitors
NGK Spark Plug Mfg. (U.S.A.), Inc.	Van Nuys, CA	NGK Spark Plug Co., Ltd.	Spark plugs
Polychrome Corp.	Cincinnati, OH	Dainippon Ink & Chemicals Inc.	Lithographic ink
Whitney-Fidalgo Seafoods, Inc.	Petersburg, AK	Kyokuyo Co., Ltd.	Canned fish
Whitney-Fidalgo Seafoods, Inc.	Port Graham, AK	Kyokuyo Co., Ltd.	Canned fish
Whitney-Fidalgo Seafoods, Inc.	Seattle, WA	Kyokuyo Co., Ltd.	Frozen fish

4. Plant Location Changes

Company	Previous Plant Location	New Plant Location	Product Line
ARi Industries Inc.	Franklin Park, IL	Addison, IL	Temperature sensors/electric heating elements
Alumax Inc., Kawneer Co., Inc.	Rosemont, IL	Itasca, IL	Architectural aluminum products
IMC Magnetics Corp.	Maywood, CA	Cerritos, CA	Electric motors
Nippondenso of Los Angeles, Inc.	Carson, CA	Long Beach, CA	Automotive air conditioning systems